

533,928

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



04 MAY 2005



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041342 A1

(51) International Patent Classification⁷: A61M 16/06,
A62B 18/02

(21) International Application Number:
PCT/AU2003/001471

(22) International Filing Date:
6 November 2003 (06.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/424,005 6 November 2002 (06.11.2002) US
60/447,327 14 February 2003 (14.02.2003) US
60/488,752 22 July 2003 (22.07.2003) US
60/503,896 22 September 2003 (22.09.2003) US

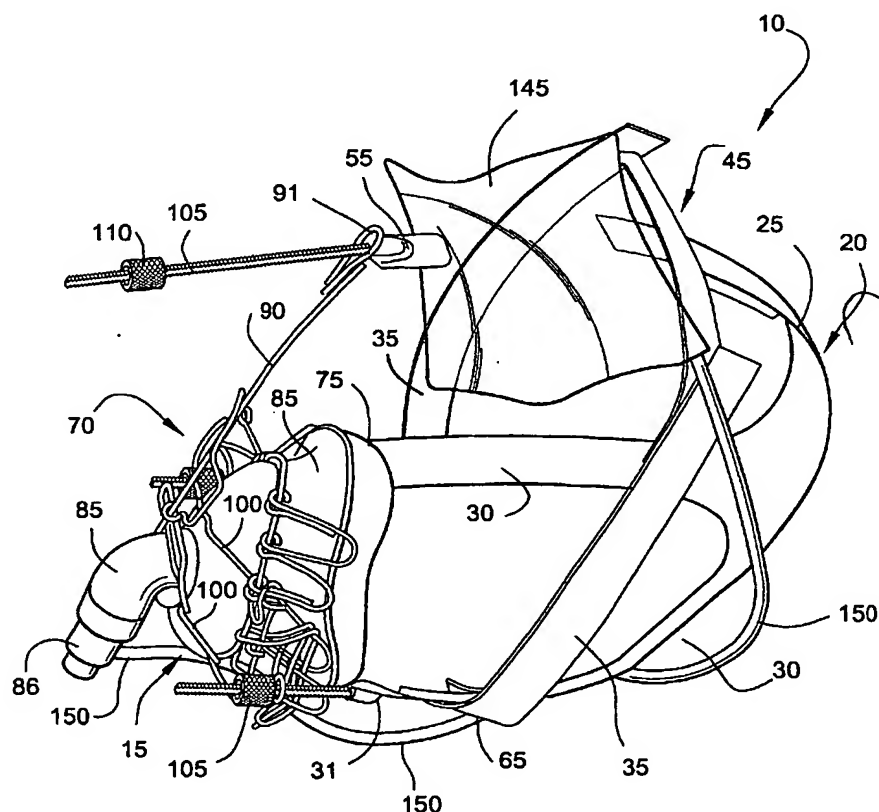
(71) Applicant (for all designated States except US): **RESMED LIMITED** [AU/AU]; 97 Waterloo Road, North Ryde, New South Wales 2113 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BERTHON-JONES, Michael** [AU/AU]; 7 Leonay Parade, Leonay, New South Wales 2750 (AU). **BATEMAN, Peter, Edward** [AU/AU]; 2/112 New Line Road, Cherrybrook, New South Wales 2126 (AU). **DARKIN, Donald** [GB/AU]; 2 Athella Place, Dural, New South Wales 2158 (AU). **GUNARATNAM, Michael, Kassipillai** [AU/AU]; 3 Keiley Street, Marsfield, New South Wales 2122 (AU). **HITCHCOCK, Robin, Garth** [AU/AU]; Unit 12/9-13 Castle Street, North Parramatta, New South Wales 2151 (AU). **JENKINSON, Philip, James** [GB/AU]; 19 Dent Street, Epping, New South Wales 2121 (AU). **LYNCH, Susan, Robyn** [GB/AU]; Unit 7/14 Forest Grove, Epping, New South Wales 2121 (AU). **MALOUF, Gordon, Joseph** [AU/AU]; 43 Coopernook Avenue, Gympsea Bay, New South Wales 2227 (AU). **MCAULIFFE, Patrick, John** [AU/AU]; Unit 18/11 Pembroke Street, Epping, New South Wales 2121 (AU). **RAJE, Milind, Chandrakant**

[Continued on next page]

(54) Title: MASK AND COMPONENTS THEREOF



(57) **Abstract:** A comfortable low-leak mask assembly for use with Non-Invasive Positive Pressure Ventilation (NIPPV) is provided to improve patient compliance and/or treatment. The mask system may include headgear having straps that are substantially inextensible and/or micro-adjustable; and/or a mask and/or cushion that includes various structures to allow enhanced/tailored sealing and/or fit at selected locations on the patient's face.

WO 2004/041342 A1